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USPT	catalyst and 19	4	<u>L10</u>
USPT	cannizzaro reaction same alcohol same carboxylic acid	23	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	cannizzaro reaction and alcohol and carboxylic acid	117	<u>L8</u>
USPT	sulfur dioxide and 16	29	<u>L7</u>
USPT	548/\$ and 11	1703	<u>L6</u>
USPT	548/ and 11	0	<u>L5</u>
USPT	548/264.6 and 11	4	<u>L4</u>
USPT	548/264.6	74	<u>L3</u>
USPT	ti.benzotriazole	0	<u>L2</u>
USPT	benzotriazole	17094	<u>L1</u>

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L12: Entry 1 of 15

File: USPT

Sep 11, 2001

US-PAT-NO: 6288288

DOCUMENT-IDENTIFIER: US 6288288 B1

TITLE: Process for preparing saturated alcohols

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Springer; Helmut	Dinslaken			DEX

US-CL-CURRENT: 568/881

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6193872 B1

L12: Entry 2 of 15

File: USPT

Feb 27, 2001

US-PAT-NO: 6193872

DOCUMENT-IDENTIFIER: US 6193872 B1

TITLE: Process and plant for treating an aqueous waste stream containing at least one alkali metal carboxylate

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reason; Arthur James	Saltburn			GBX
Harrison; George Edwin	Billericay			GBX
Spratt; Richard Clive	Harrow			GBX

US-CL-CURRENT: 205/510; 204/263, 205/512, 205/549, 205/554

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5849796 A

L12: Entry 3 of 15

File: USPT

Dec 15, 1998

US-PAT-NO: 5849796

DOCUMENT-IDENTIFIER: US 5849796 A

TITLE: Ortho-substituted benzoil acid derivatives

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gericke; Rolf	Seeheim-Jugenheim			DEX
Dorsch; Dieter	Ober-Ramstadt			DEX
Baumgarth; Manfred	Ober-Ramstadt			DEX
Minck; Klaus-Otto	Ober-Ramstadt			DEX
Beier; Norbert	Reinheim			DEX

US-CL-CURRENT: 514/618; 514/522, 514/599, 514/616, 514/821, 514/824, 514/866,
514/921, 558/412, 558/413, 564/154, 564/162, 564/74

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWMC	Draw Desc	Image
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☐ 4. Document ID: US 5072016 A

L12: Entry 4 of 15

File: USPT

Dec 10, 1991

US-PAT-NO: 5072016

DOCUMENT-IDENTIFIER: US 5072016 A

TITLE: Mixtures of fluorescent whitening agents

DATE-ISSUED: December 10, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guglielmetti; Leonardo	Bottmingen			CHX
Meyer; Hans R.	Binningen			CHX
Reinehr; Dieter	Kandern			DEX
Weber; Kurt	Basel			CHX

US-CL-CURRENT: 558/373; 252/301.21, 252/301.22, 558/411

Full	Title	Citation	Front	Review	Classification	Date	Reference
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RWMC	Draw Desc	Image
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☐ 5. Document ID: US 4891153 A

L12: Entry 5 of 15

File: USPT

Jan 2, 1990

US-PAT-NO: 4891153

DOCUMENT-IDENTIFIER: US 4891153 A

TITLE: Mixtures of fluorescent whitening agents

DATE-ISSUED: January 2, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guglielmetti; Leonardo	Bottmingen			CHX
Meyer; Hans R.	Binningen			CHX
Reinehr; Dieter	Kandern			DEX
Weber; Kurt	Basel			CHX

US-CL-CURRENT: 252/301.22; 252/301.21, 558/373

Full	Title	Citation	Front	Review	Classification	Date	Reference
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RMIC	Draw Desc	Image
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☐ 6. Document ID: US 4867906 A

L12: Entry 6 of 15

File: USPT

Sep 19, 1989

US-PAT-NO: 4867906

DOCUMENT-IDENTIFIER: US 4867906 A

TITLE: Mixtures of fluorescent whitening agents

DATE-ISSUED: September 19, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guglielmetti; Leonardo	Bottmingen			CHX
Meyer; Hans R.	Binningen			CHX
Reinehr; Dieter	Kandern			DEX
Weber; Kurt	Basle			CHX

US-CL-CURRENT: 252/301.22; 252/301.21

Full	Title	Citation	Front	Review	Classification	Date	Reference
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RMIC	Draw Desc	Image
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☐ 7. Document ID: US 4778622 A

L12: Entry 7 of 15

File: USPT

Oct 18, 1988

US-PAT-NO: 4778622

DOCUMENT-IDENTIFIER: US 4778622 A

TITLE: Mixtures of fluorescent whitening agents

DATE-ISSUED: October 18, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guglielmetti; Leonardo	Bottmingen			CHX
Meyer; Hans R.	Binningen			CHX
Reinehr; Dieter	Kandern			DEX
Weber; Kurt	Basel			CHX

US-CL-CURRENT: 252/301.21; 252/301.22, 558/411

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 4755319 A

L12: Entry 8 of 15

File: USPT

Jul 5, 1988

US-PAT-NO: 4755319

DOCUMENT-IDENTIFIER: US 4755319 A

TITLE: Process for the production of solid, pourable washing or cleaning agents with a content of a calcium binding silicate

DATE-ISSUED: July 5, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smolka; Heinz	Langenfeld Rhld.			DEX
Schwuger; Milan J.	Haan Rhld			DEX

US-CL-CURRENT: 510/507; 252/179, 423/328.1, 510/220, 510/315, 510/351, 510/381

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 4330423 A

L12: Entry 9 of 15

File: USPT

May 18, 1982

US-PAT-NO: 4330423
DOCUMENT-IDENTIFIER: US 4330423 A

TITLE: Process for the production of solid, pourable washing or cleaning agents with a content of a calcium binding silicate

DATE-ISSUED: May 18, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smolka; Heinz	Langenfeld			DEX
Schwuger; Milan J.	Haan			DEX

US-CL-CURRENT: 510/220; 252/179, 423/429, 510/108, 510/228, 510/276, 510/315,
510/351, 510/443, 510/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 10. Document ID: US 4318848 A

L12: Entry 10 of 15

File: USPT

Mar 9, 1982

US-PAT-NO: 4318848
DOCUMENT-IDENTIFIER: US 4318848 A

TITLE: Process for the neutralization of basic reaction compositions

DATE-ISSUED: March 9, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molls; Hans-Heinz	Leverkusen			DEX
Schiwy; Willy	Leverkusen			DEX
Hornle; Reinhold	Cologne			DEX
Nebeling; Reinhard	Leverkusen			DEX

US-CL-CURRENT: 534/581; 534/793, 544/339, 552/212, 552/225, 552/236, 558/315,
560/338, 562/470, 564/271, 564/272, 568/333, 568/437, 568/608, 568/764, 585/25,
8/544

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 11. Document ID: US 4071377 A

L12: Entry 11 of 15

File: USPT

Jan 31, 1978

US-PAT-NO: 4071377

DOCUMENT-IDENTIFIER: US 4071377 A

TITLE: Method of mechanical dishwashing and compositions

DATE-ISSUED: January 31, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwuger; Milan Johann	Haan			DT
Smolka; Heinz	Langenfeld			DT
Altenschopfer; Theodor	Dusseldorf			DT
Rostek; Manfred	Dusseldorf			DT

US-CL-CURRENT: 134/29; 252/179, 423/700, 423/DIG.24, 510/220, 510/381[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 12. Document ID: US 3965024 A

L12: Entry 12 of 15

File: USPT

Jun 22, 1976

US-PAT-NO: 3965024

DOCUMENT-IDENTIFIER: US 3965024 A

TITLE: Washing agent compositions and washing assistant composition containing phosphonopolycarboxylate sequestering agents

DATE-ISSUED: June 22, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schmadel; Edmund	Mettman			DT
Jakobi; Gunter	Hilden			DT
Worms; Karl-Heinz	Dusseldorf-Holthausen			DT
Blum; Helmut	Dusseldorf-Holthausen			DT

US-CL-CURRENT: 510/318; 510/283, 510/292, 510/307, 510/313, 510/316, 510/320, 510/324, 510/351, 510/469[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 13. Document ID: US 3953494 A

L12: Entry 13 of 15

File: USPT

Apr 27, 1976

US-PAT-NO: 3953494

DOCUMENT-IDENTIFIER: US 3953494 A

TITLE: Reactions involving carbon tetrahalides and .alpha.-methyl ketones or ketones having .alpha.,.alpha.'-hydrogens

DATE-ISSUED: April 27, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyers; Cal Yale	Carbondale	IL		
Matthews, III; Walter Sidney	Carbondale	IL		

US-CL-CURRENT: 560/1; 558/366, 560/101, 560/103, 560/231, 560/236, 562/400,
562/491, 562/493, 562/606, 568/316, 568/322, 568/332, 568/348, 568/375, 568/376,
568/442

Full	Title	Citation	Front	Review	Classification	Date	Reference
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☐ 14. Document ID: US 3862215 A

L12: Entry 14 of 15

File: USPT

Jan 21, 1975

US-PAT-NO: 3862215

DOCUMENT-IDENTIFIER: US 3862215 A

TITLE: PRODUCTION OF 2,2-DIMETHYL-1,3-PROPANEDIOL MONOESTERS OF HYDROXYPIVALIC ACID

DATE-ISSUED: January 21, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Merger; Franz	6710 Frankenthal			DT
Duembgen; Gerd	6701 Dannstadt			DT
Fuchs; Werner	6700 Ludwigshafen			DT

US-CL-CURRENT: 560/189

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: EP 1085002 A2, JP 2001081053 A

L12: Entry 15 of 15

File: DWPI

Mar 21, 2001

DERWENT-ACC-NO: 2001-309685
DERWENT-WEEK: 200133
COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: New organic synthesis comprises utilizing supply of OH- from water without the addition of a basic catalyst in supercritical or subcritical water

INVENTOR: HATAKEDA, K; IKUSHIMA, Y ; SATO, O

PRIORITY-DATA: 1999JP-0259549 (September 13, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1085002 A2	March 21, 2001	E	012	C07C029/147
JP 2001081053 A	March 27, 2001		008	C07C033/22

INT-CL (IPC): C07B 61/00; C07C 27/00; C07C 27/04; C07C 29/14; C07C 29/147; C07C 33/22; C07C 51/16; C07C 51/295; C07C 63/06

Full Title Citation Front Review Classification Date Reference

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L2: Entry 1 of 11

File: USPT

Sep 4, 2001

US-PAT-NO: 6284116

DOCUMENT-IDENTIFIER: US 6284116 B1

TITLE: Process for treating aqueous solutions comprising bases and organic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 2. Document ID: US 6280593 B1

L2: Entry 2 of 11

File: USPT

Aug 28, 2001

US-PAT-NO: 6280593

DOCUMENT-IDENTIFIER: US 6280593 B1

TITLE: Process for separating off organic acids from aqueous solutions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 3. Document ID: US 6133209 A

L2: Entry 3 of 11

File: USPT

Oct 17, 2000

US-PAT-NO: 6133209

DOCUMENT-IDENTIFIER: US 6133209 A

TITLE: Polyolefins and their functionalized derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 4. Document ID: US 5616787 A

L2: Entry 4 of 11

File: USPT

Apr 1, 1997

US-PAT-NO: 5616787

DOCUMENT-IDENTIFIER: US 5616787 A

TITLE: Process for the preparation of alkylated aromatic carboxylic acids and acyl halides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 5. Document ID: US 5415926 A

L2: Entry 5 of 11

File: USPT

May 16, 1995

US-PAT-NO: 5415926

DOCUMENT-IDENTIFIER: US 5415926 A

TITLE: Process for reducing the free aldehyde content in N-alkylol amide monomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 6. Document ID: US 4396733 A

L2: Entry 6 of 11

File: USPT

Aug 2, 1983

US-PAT-NO: 4396733

DOCUMENT-IDENTIFIER: US 4396733 A

TITLE: Stabilized azulmic acids, processes for their preparation and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 7. Document ID: US 4341650 A

L2: Entry 7 of 11

File: USPT

Jul 27, 1982

US-PAT-NO: 4341650

DOCUMENT-IDENTIFIER: US 4341650 A

TITLE: Chemically stabilized azulmic acids, processes for their preparation and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 8. Document ID: US 4263181 A

L2: Entry 8 of 11

File: USPT

Apr 21, 1981

US-PAT-NO: 4263181

DOCUMENT-IDENTIFIER: US 4263181 A

TITLE: Chemically stabilized azulmic acids, processes for their preparation and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 9. Document ID: US 4252919 A

L2: Entry 9 of 11

File: USPT

Feb 24, 1981

US-PAT-NO: 4252919

DOCUMENT-IDENTIFIER: US 4252919 A

TITLE: Stabilized azulmic acids, processes for their preparation and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 10. Document ID: US 4042748 A

L2: Entry 10 of 11

File: USPT

Aug 16, 1977

US-PAT-NO: 4042748

DOCUMENT-IDENTIFIER: US 4042748 A

TITLE: Process for improving coating compositions for paper and paper substitutes by use of poly(hydroxyaldehydocarboxylate) dispersing agent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L2: Entry 11 of 11

File: USPT

Nov 16, 1976

US-PAT-NO: 3992343

DOCUMENT-IDENTIFIER: US 3992343 A

TITLE: Process for dispersing undissolved solid, organic or inorganic colorant particles

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Data](#) [Reference](#) [Sequences](#) [Attachments](#)[KWD](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

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=> s cannizzaro reaction and carboxylic acid and alcohol

1035 CANNIZZARO

2402298 REACTION

829 CANNIZZARO REACTION

(CANNIZZARO (W) REACTION)

181763 CARBOXYLIC

3275756 ACID

98227 CARBOXYLIC ACID

(CARBOXYLIC (W) ACID)

142076 ALCOHOL

L1 3 CANNIZZARO REACTION AND CARBOXYLIC ACID AND ALCOHOL

=> d 1-3 ibib abs hitstr

L1 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:207921 CAPLUS

DOCUMENT NUMBER: 134:222282

TITLE: Method of novel non-catalytic organic synthesis using supercritical water for a **Cannizzaro reaction**

INVENTOR(S): Ikushima, Yutaka; Sato, Osamu; Hatakeda, Kiyotaka

PATENT ASSIGNEE(S): Japan as Represented by Secretary of Agency of Industrial Science and Techno, Japan

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1085002	A2	20010321	EP 2000-119857	20000912

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 2001081053	A2	20010327	JP 1999-259549	19990913
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PRIORITY APPLN. INFO.: JP 1999-259549 A 19990913

OTHER SOURCE(S): CASREACT 134:222282

AB The invention provides a method of increasing the reaction rate of an org. synthesis reaction by utilizing a supply of OH- from water in the absence of catalyst without adding a basic catalyst in supercrit. water or subcrit. water of .gtoreq.350.degree., and a method of generating an alc. (e.g., benzyl alc.) and a **carboxylic acid** (e.g., benzoic acid) with high reaction rates by performing a **Cannizzaro reaction** in the absence of a catalyst and without adding a basic catalyst in supercrit. water, and to a method of synthesis of an alc. and a **carboxylic acid** from an aldehyde in the absence of catalyst without adding a basic catalyst near the crit. point (375-380.degree./22.5-25 MPa) of supercrit. water.

L1 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:442462 CAPLUS

DOCUMENT NUMBER: 127:170855

TITLE: **Cannizzaro reaction** of aldehydes in TMAH thermochemolysis

AUTHOR(S): Tanczos, I.; Schoeflinger, M.; Schmidt, H.; Balla, J.

CORPORATE SOURCE: Institute of Organic Chemical Technology, Johannes Kepler University Linz, Linz-Auhof, 4040, Austria

SOURCE: J. Anal. Appl. Pyrolysis (1997), 42(1), 21-31

CODEN: JAAPDD; ISSN: 0165-2370

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Recently, tetramethylammonium hydroxide (TMAH) was advantageously used in the anal. pyrolysis of polymers, but yielded a great amt. of **carboxylic acid** Me esters which were absent in conventional pyrolysis. The expts. with model compds. such as furaldehyde, benzaldehyde, hydroxy-, methoxy-, dimethoxybenzaldehyde and

vanillin show that TMAH can react not only as a methylating and/or hydrolyzing agent but also with aldehydes according to a Cannizzaro reaction and the reaction products can be in-situ methylated to the corresponding esters and ethers.

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:218645 CAPLUS

DOCUMENT NUMBER: 126:276978

TITLE: Applications of High-Temperature Aqueous Media for Synthetic Organic Reactions

AUTHOR(S): An, Jingyi; Bagnell, Laurence; Cablewski, Teresa; Strauss, Christopher R.; Trainor, Robert W.

CORPORATE SOURCE: Division of Chemicals and Polymers, CSIRO, Clayton South, 3169, Australia

SOURCE: J. Org. Chem. (1997), 62(8), 2505-2511

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:276978

AB Preparative org. synthesis was investigated in aq. media at temps. up to 300 .degree.C. Expts. were conducted with a recently disclosed pressurized microwave batch reactor (MBR) or in conventionally heated autoclaves. Thirty-six examples are presented. Among these, methods were developed for a Fischer synthesis, an intramol. aldol condensation that was scaled up, decarboxylation of indole-2-carboxylic acid, Rupe rearrangement of 1-ethynyl-1-cyclohexanol, isomerization of carvone to carvacrol, and conversion of phenylacetylene to acetophenone. The applicability of high-temp. water was also demonstrated for biomimetic processes important in food, flavor, and aroma chem. and for tandem reactions such as formation of 2-methyl-2,3-dihydrobenzofuran from allyl Ph ether. When addn. of acid or base was necessary, less agent was usually required for high-temp. processes than for those at and below boiling, and the reactions often proceeded more selectively. In some instances the requirement was orders of magnitude lower, with obvious consequences for safe, economic processing and for lowering costs of effluent disposal. The diversity of reactions indicates that high-temp. aq. media could play an increasingly important role in the development of new preparative processes.